



RF Cable Assemblies Technical Data Sheet

ET28698

Configuration

Connector 1: N Male

Connector 2: SSMC Plug Right Angle

Cable Type: ET-LMR-100A

Features

- SSMC Cable Assembly Max. Operating Frequency of 1 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship

Applications

- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

Description

Ebeestock's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Ebeestock's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Ebeestock's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Ebeestock has the right cable assemblies for the job. Ebeestock can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to SSMC Plug Right Angle Low Loss Cable 6 Inch Length Using ET-LMR-100 Coax ET28698





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Jacket Spark	2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	250	500	1,000			MHz
Insertion Loss (Typ.)	0.26	0.29	0.32			dB

Mechanical Specifications

Cable Assembly

Length* 6 in [152.4 mm]
Diameter 0.8 in [20.32 mm]

Cable

Cable Type
Impedance
Inner Conductor Type

ET-LMR-100A
50 Ohms
Solid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type

Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

PE

Aluminum Tape

Tinned Copper Braid

PVC, Black

0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

0.1 lbs-ft [0.14 N-m]

Flat Plate Crush
Tensile Strength
10 lbs/in [0.18 Kg/mm]
15 lbs [6.8 Kg]

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Connectors

Connector 1	Connector 2		
N Male	SSMC Plug Right Angle		
MIL-STD-348A			
50 Ohms	50 Ohms		
	500		
Brass, Gold	Beryllium Copper, Gold		
30 µin minimum	MIL-G-45204		
PTFE	Teflon		
Brass, Nickel	Brass, Gold		
100 μin minimum	MIL-G-45204		
Brass, Nickel	Beryllium Copper, Gold		
100 μin minimum	MIL-G-45204		
	1.75 in-lbs [0.2 Nm]		
	N Male MIL-STD-348A 50 Ohms Brass, Gold 30 μin minimum PTFE Brass, Nickel 100 μin minimum Brass, Nickel		

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order

Part Number Configuration:

ET3C4433 - xx uu

Unit of Measure:

cm = Centimeters

chlank> = Inches

Base Number

Example: ET3C4433-12 = 12 inches long cable

ET3C4433-100cm = 100 cm long cable

N Male to SSMC Plug Right Angle Low Loss Cable 6 Inch Length Using ET-LMR-100 Coax from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to SSMC Plug Right Angle Low Loss Cable 6 Inch Length Using ET-LMR-100 Coax ET28698

URL: https://www.ebeestock.com/n-male-to-ssmc-plug-right-angle-low-loss-cable-6-inch-length-using-lmr-100-coax-0028698

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

